

e main parameters for selecting the resin are its performance, cost, processing characteristics and availability. Resin content, flow, softening temperature, degree of tack and even cure cycle can be altered if need be to suit variations in the process. The constituents of one suitable resin system are manufactured by Ciba Geigy and are readily available. The system in question is a brominated Bisphenol-A epoxy using Dicyandiamide (Dicy) as the curing agent. Liquid unmodified Bisphenol-A may be added to the formulation to bring the softening point down. The system is flame retardant and meets NEMA grade FR-4. It is conventionally used to manufacture high quality electrical laminates, particularly printed circuit boards. The resin system comprises:

Having thus described the physical construction of surge arresters in accordance with the invention, apparatuses, methods and materials for their manufacture, and an advantageous exemplary application thereof, it is to be appreciated that variations and modifications, for example the use of a mechanically released elastomeric material instead of the heat-shrink material herein particularly described, could be made without departure from the essence of the invention, which is to encase a rigid solid-state arrester core comprising varistor blocks sealingly and without voids or gaseous entrapments within an outer housing of polymeric heat-shrink material or mechanically-released elastomeric material with a heat shield of dielectric material between the core and the outer housing to preserve the integrity of the outer housing against high temperature transients arising under short-circuit failure conditions.

1. A method of manufacturing a gapless surge arrester com

in are its performance, cost, processing characteristics and availability. Resin content, flow, softening temperature, degree of tack and even cure cycle can be altered if need be to suit variations in the process. The constituents of one suitable resin system are manufactured by Ciba Geigy and are readily available. The system in question is a brominated Bisphenol-A epoxy using Dicyandiamide (Dicy) as the curing agent. Liquid unmodified Bisphenol-A may be added to the formulation to bring the softening point down. The system is flame retardant and meets NEMA grade FR-4. It is conventionally used to manufacture high quality electrical laminates, particularly printed circuit boards. The resin system comprises:

Having thus described the physical construction of surge arresters in accordance with the invention, apparatuses, methods and materials for their manufacture, and an advantageous exemplary application thereof, it is to be appreciated that variations and modifications, for example the use of a mechanically released elastomeric material instead of the heat-shrink material herein particularly described, could be made without departure from the essence of the invention, which is to encase a rigid solid-state arrester core comprising varistor

	Type	L #	Hits	Search Text	DBs	Time Stamp	Comments
1	BRS	L1	3	"9960357"	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/04/03 13:14	
2	BRS	L2	15	pre-woven adj fabric	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/04/03 13:15	
3	BRS	L3	73	pre-woven	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/04/03 13:16	
4	BRS	L4	39	(prewoven or pre-woven) with fabric	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/04/03 13:18	
5	BRS	L5	9396 8	(woven or weave or weaved) with fabric	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/04/03 13:19	
6	BRS	L6	1397 0	varistor or MOV	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/04/03 13:20	
7	BRS	L7	17	5 and 6	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/04/03 13:20	